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NOTICE OF ALLOWANCE AND FEE(S) DUE

20999

7590

02/19/2004

FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151 EXAMINER

JOHNSTON, PHILLIP A

PAPER NUMBER

ART UNIT

DATE MAILED: 02/19/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/089.682	06/25/2002	Ulrich Ratzinger	930008-2070	2736

TITLE OF INVENTION: DEVICE AND METHOD FOR ION BEAM ACCELERATION AND ELECTRON BEAM PULSE FORMATION AND AMPLIFICATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/19/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

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- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE C mmissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed wh appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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02/19/2004

FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below.

(Depositor's na (Signat

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nonprovisional	NO	\$1330	\$300		\$1630	05/19/2004
EXAM	IINER	ART UN	T	CLASS-SUBCLASS]	
JOHNSTON, PHILLIP A 288		2881		315-506000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names o agents O firm (hav agent) an	inting on the patent front page, f up to 3 registered patent a R, alternatively, (2) the name ving as a member a registered and the names of up to 2 regist or agents. If no name is listerinted.	of a single attorney or 2ered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE	(B) RESIDENCE: (CITY	(B) RESIDENCE: (CITY and STATE OR COUNTRY)				
•						
Please check the appropriate assignee category or ca	tegories (will not be printed on the patent);	individual	□ corporation or other private group entity	governm		
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):					
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.			
☐ Publication Fee	☐ Payment by credit	☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of Copies		☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form).				
Director for Patents is requested to apply the Issue F	ee and Publication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified above	ve.		
(Authorized Signature)	(Date)					
NOTE; The Issue Fee and Publication Fee (if re other than the applicant; a registered attorney or interest as shown by the search of the United States	r agent; or the assignee or other party in					

st as shown by the records of the United States Patent and Trademark Office

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents. Alexandria, Virginia 22313-1450. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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FROMMER LAWRENCE & HAUG			JOHNSTON, PHILLIP A	
745 FIFTH AVEN NEW YORK, NY			ART UNIT	PAPER NUMBER
			2881	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 2 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 2 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
A	10/089,682	RATZINGER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Phillip A Johnston	2881	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communicatior GHTS. This application is subject to	plication. If not included n will be mailed in due cou	ırse. THIS
1. This communication is responsive to 11-21-2003.			
2. Martin The allowed claim(s) is/are <u>1-40</u> .			
3. A cknowledgment is made of a claim for foreign priority up			
 Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 	idol 00 0.0.0. g 118(a)-(u) 01 (l).		
1. ☐ Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	been received in Application No		
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority up	ader 35 U.S.C. & 110(a) (to a provin	ional application) since a	specific
 Acknowledgment is made of a claim for domestic priority under reference was included in the first sentence of the specifical 	ition or in an Application Data Shee	t. 37 CFR 1.78.	5F 50mV
(a) X The translation of the foreign language provisional a	pplication has been received.		
 Acknowledgment is made of a claim for domestic priority up in the first sentence of the specification or in an Application 	Data Sheet. 37 CFR 1.78.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this application. THIS THREE-MO	NTH PERIOD IS NOT EX	TENDABLE.
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINEF is reason(s) why the oath or declara	R'S AMENDMENT or NOT ation is deficient.	TICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No 		-948) attached	
(b) ☐ including changes required by the proposed drawing c			
(c) including changes required by the attached Examiner's			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawi he margin according to 37 CFR 1.121	ings in the front (not the ba (d).	ack) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T 	SIT OF BIOLOGICAL MATERIAL THE DEPOSIT OF BIOLOGICAL MA	must be submitted. Not \TERIAL.	e the
Attachment(s)	_		
1 ☐ Notice of References Cited (PTO-892)		atent Application (PTO-15	
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08	2)	(PTO-413), Paper No	 ·
Paper No	/ Examiner's Amendin		
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Staterne 9⊡ Other	nt of Reasons for Allowar	nce

Application/Control Number: 10/089,682

Art Unit: 2881

Examiner's statement of reasons for allowance

The following is an examiner's statement of reasons for allowance:

1. Claims 1,10,19,22, and 36 are allowed because Prior art fails to show a pulsed

electron beam tube arranged transverse and offset relative to an ion accelerator axis,

where the ion beam is accelerated by coupling the output of the tube to the pulsed ion

beam.

The use of an electron beam tube whose power output is coupled to the ion

beam of an ion accelerator is patentable.

2. Claims 2-9,11-18,20,21,23-36, and 38-40 are allowed because they are

dependent upon allowed Claims 1,10,19,22, and 36.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Page 2

Application/Control Number: 10/089,682 Page 3

Art Unit: 2881

Conclusion

3. Any inquiry concerning this communication or earlier communications should be directed to Phillip Johnston whose telephone number is (703) 305-7022. The examiner can normally be reached on Monday-Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor John Lee can be reached at (703) 308-4116. The fax phone numbers are (703) 872-9318 for regular response activity, and (703) 872-9319 for after-final responses. In addition the customer service fax number is (703) 872-9317.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

PJ January 13, 2004

SUPER SORY PATENT EXAMINER
TECHNOLOGY CENTER 2830